



---

2023 COASTAL MASTER PLAN  
*COMMITTED TO OUR COAST*

# 2023 COASTAL MASTER PLAN CPRA BOARD UPDATE



**JULY 21, 2021**



# OVERVIEW

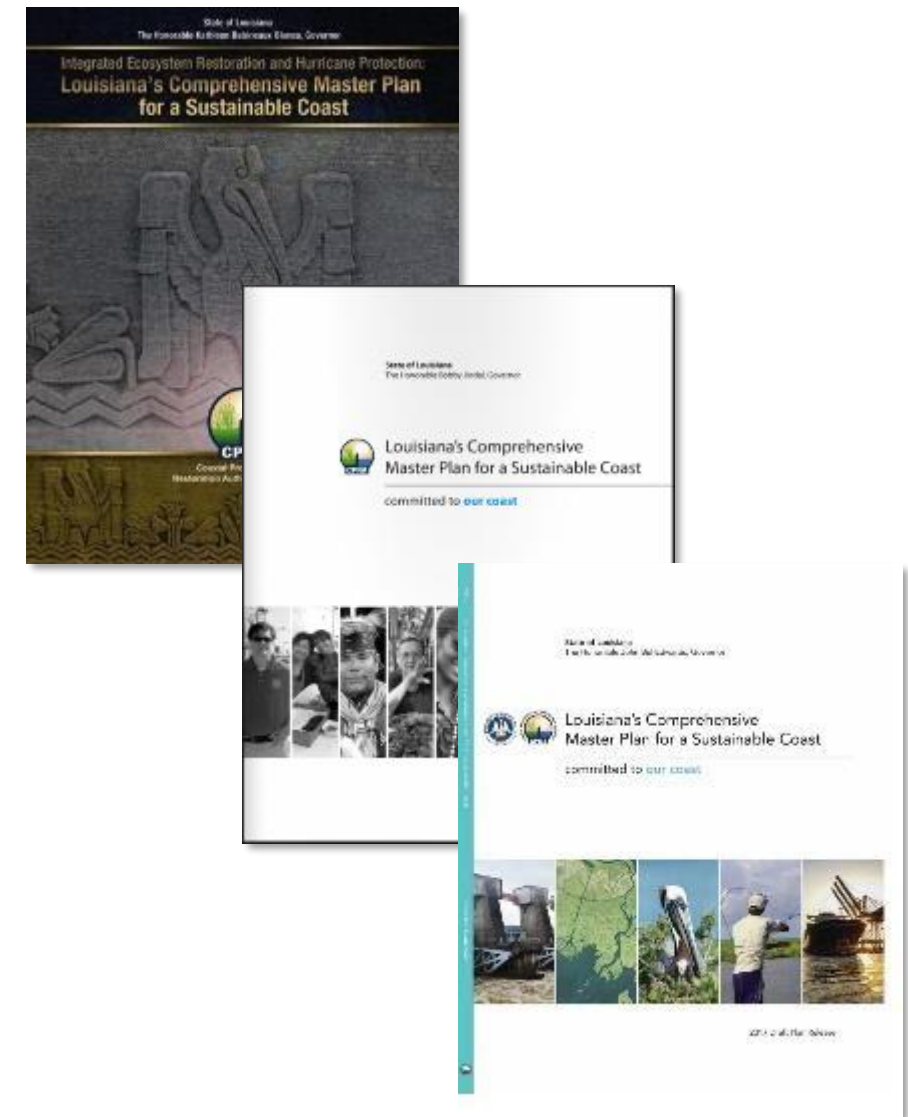
A scenic view of a marshy area with a boat on the water. The foreground shows a body of water with ripples. In the middle ground, there are patches of tall, dry grass and reeds. A white boat with a metal frame and a motor is moving across the water, leaving a wake. The background features a line of trees and a clear blue sky with some clouds. A dark green rectangular box with the word 'OVERVIEW' in white capital letters is centered over the image.



# MASTER PLAN OVERVIEW

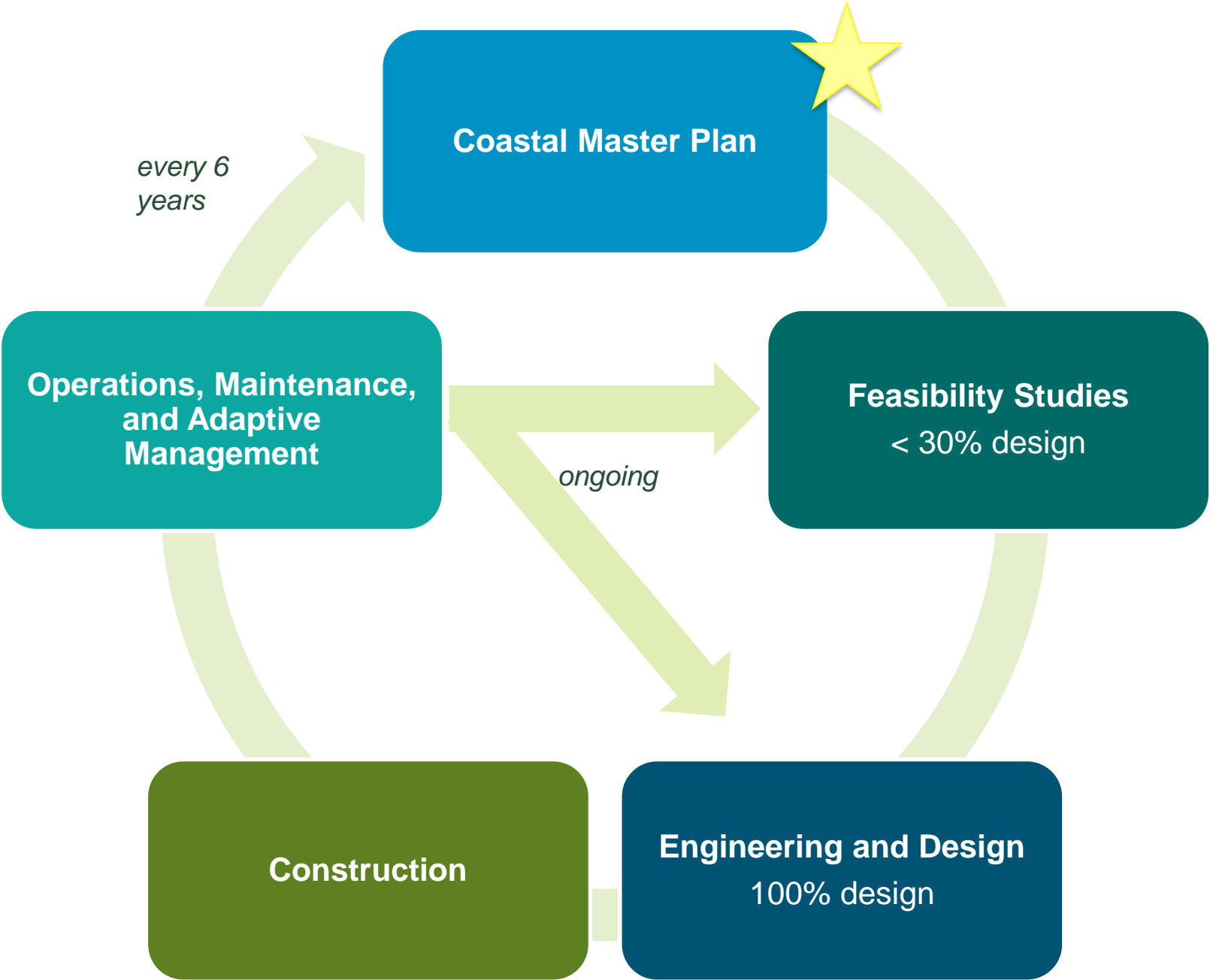
## CPRA BOARD UPDATE

- Prioritization effort. How can the state spend its money most cost-effectively over the next 50 years to reduce storm surge based flood risk and restore and maintain coastal wetlands
- Built on world class science and engineering
- Illustrates how the coast is going to change
- Required by law to be updated every six years
- Incorporates extensive public input and review
- Advances a comprehensive and integrated approach to protection and restoration
- Identifies investments that will pay off, not just for us, but for our children and grandchildren



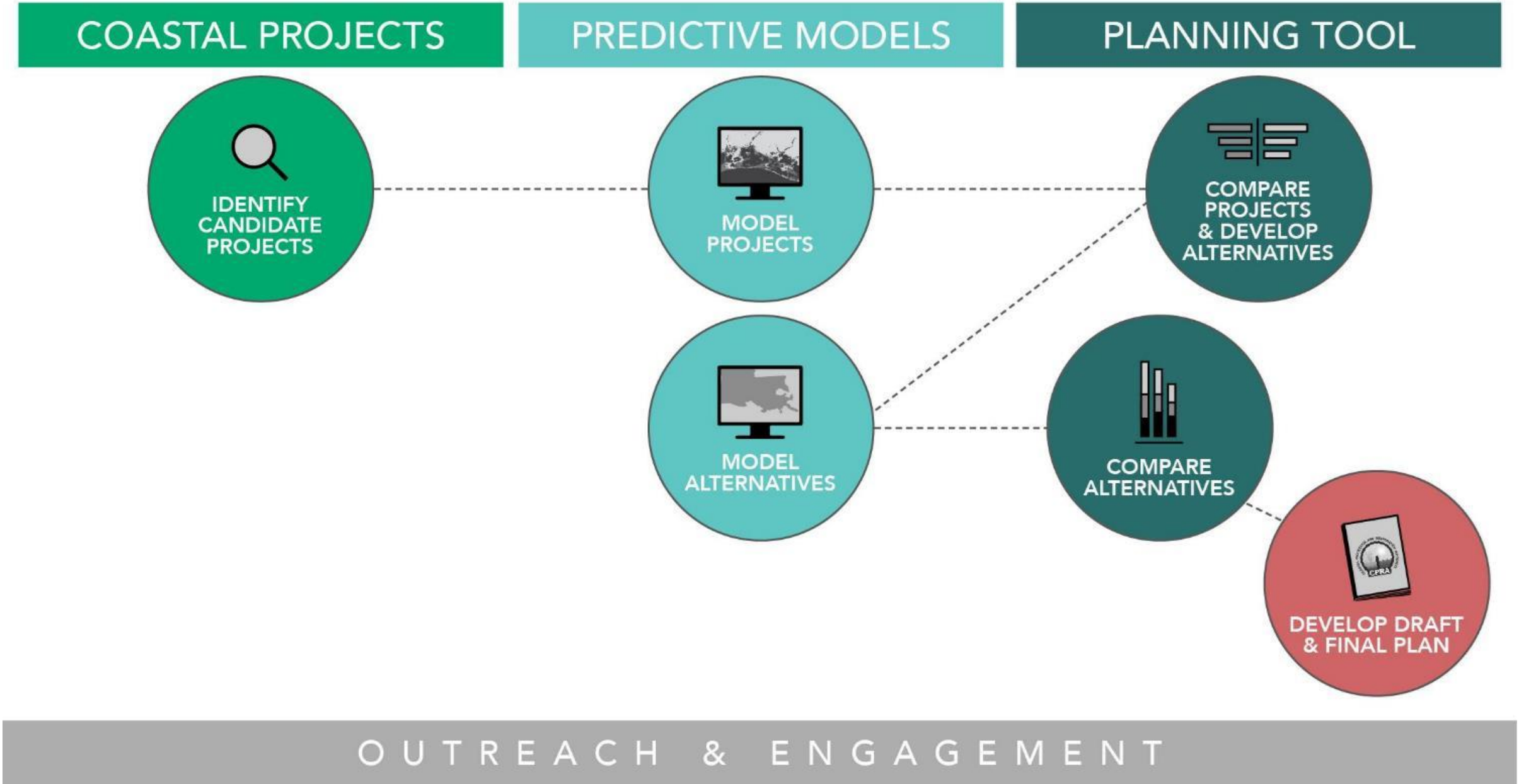
# THE COASTAL MASTER PLAN IN CONTEXT

CPRA BOARD UPDATE



# PROJECT PRIORITIZATION PROCESS

CPRA BOARD UPDATE





A white boat with a metal frame and green equipment is moving through a body of water, leaving a white wake. The water is blue with some ripples. In the foreground, there are tall, dry, yellowish-brown reeds. In the background, there is a line of green trees under a blue sky with some white clouds. A dark green rectangular box with the word "PROGRESS" in white capital letters is centered over the image.

**PROGRESS**



# 2023 COASTAL MASTER PLAN UPDATE

- New Project Development
- Model Improvements
- Planning Tool Approach
- Outreach

# NEW PROJECT DEVELOPMENT

## PROJECT SOURCES

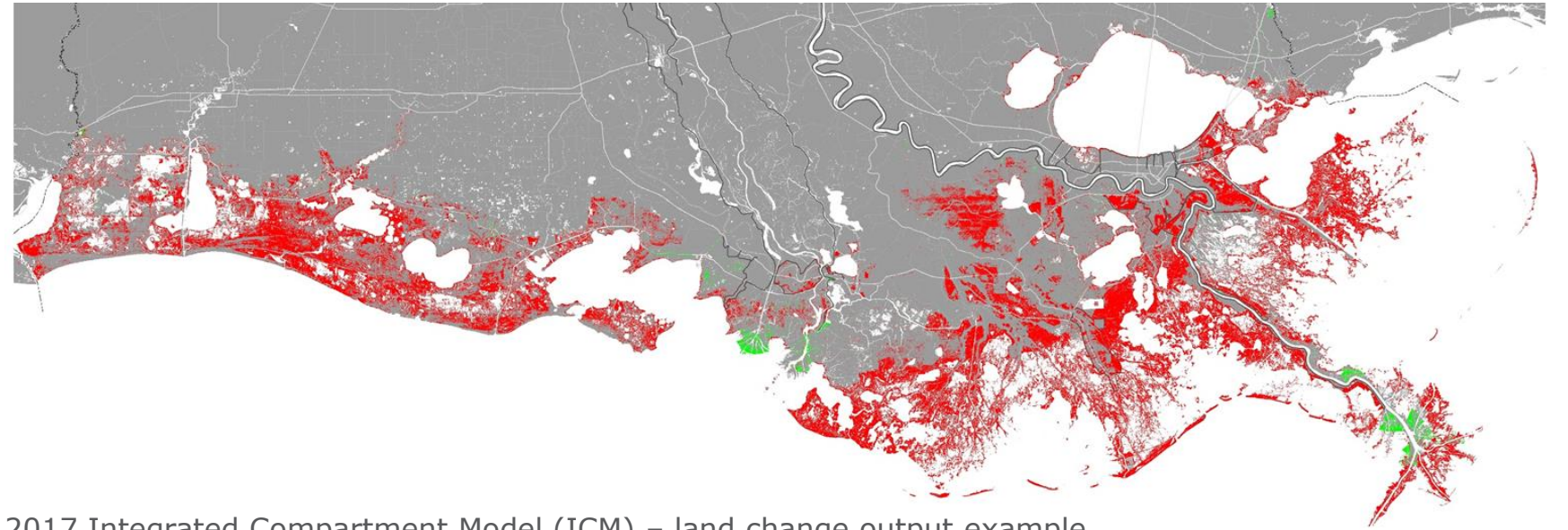
- **PUBLIC SOLICITATION #1** – October 2018 – March 2019
  - Received 88 submissions
  - Provided feedback to proposers prior to public solicitation #2
- **PUBLIC SOLICITATION #2** – October 2019 – February 2020
  - Received 53 submissions
- **REGIONAL WORKGROUPS** – 2018 – ongoing
  - Assist in development of new project concepts
    - Developed 48 project concepts
  - Review and refine project concepts



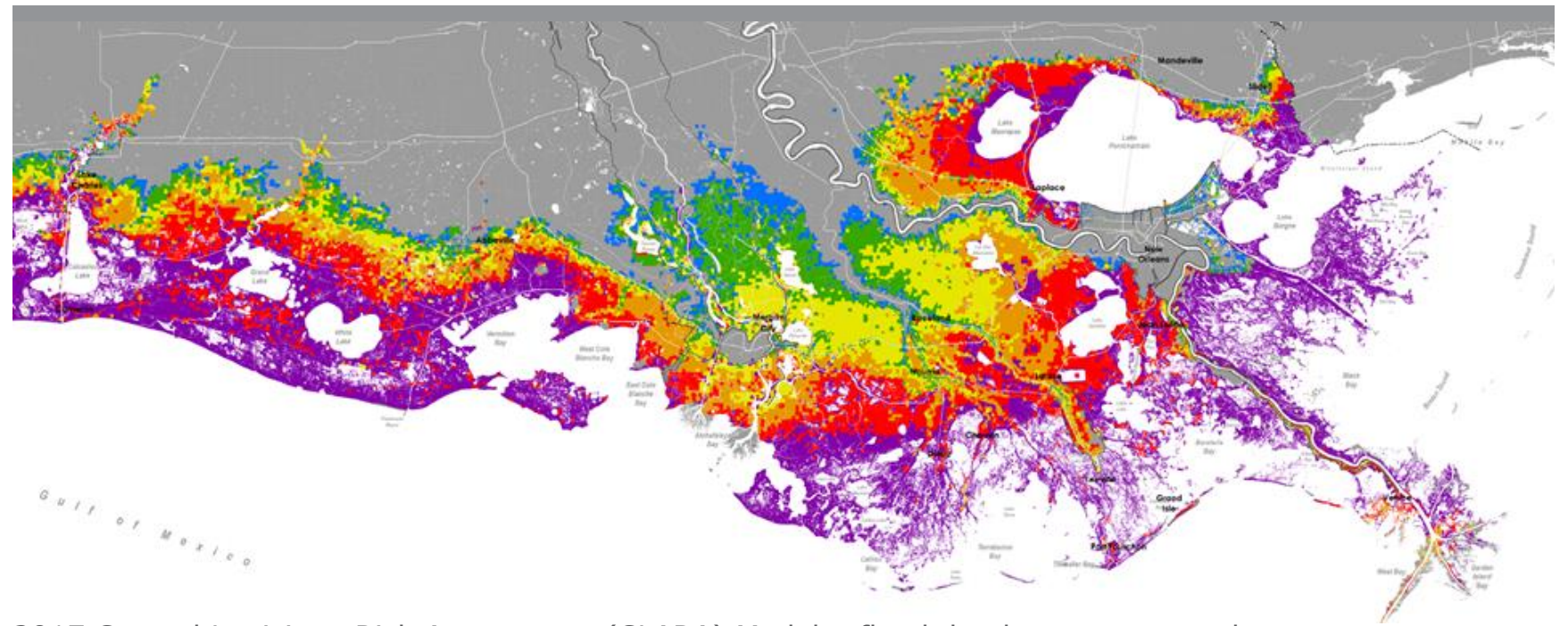
# MODEL IMPROVEMENTS

## OVERVIEW

- Integrated Compartment Model
- Environmental Scenarios
- Surge and Wave Improvements
- Risk Assessment Improvements



2017 Integrated Compartment Model (ICM) – land change output example



2017 Coastal Louisiana Risk Assessment (CLARA) Model – flood depth output example



# MODEL IMPROVEMENTS

## DOCUMENTATION AND TECHNICAL RESOURCES

- Documentation for 2023 Coastal Master Plan has begun to be posted to CPRA website. As of July 2021:
  - **12** outreach webinar videos posted (7.5+ hours of material)
  - **11** technical reports documenting model improvement recommendations, analyses, and processes posted so far (more to come)

<https://coastal.la.gov/our-plan/2023-coastal-master-plan/outreach/>

<https://coastal.la.gov/our-plan/2023-coastal-master-plan/technical-resources/>

The screenshot shows the CPRA website header with the logo and navigation links: About CPRA, What's At Stake, Our Plan, Our Work, Press Releases, Resources, and Calendar. A sign-up form is also present. The main content area is titled 'Outreach' and features a sidebar with links to the 2023 Coastal Master Plan, Outreach, Technical Resources (including Archived Resources), Partners, 2017 Coastal Master Plan, 2012 Coastal Master Plan, and Annual Plan. The main text area is titled 'MODELING UPDATE WEBINARS' and describes a series of webinars focused on technical updates and predictive modeling. It includes a list of 12 webinar topics with links to each.

**Coastal Protection and Restoration Authority**

Sign Up. Stay Informed.  
Email  Zipcode    
f t i in

About CPRA What's At Stake Our Plan Our Work Press Releases Resources Calendar

2023 Coastal Master Plan

Outreach

Technical Resources

- Archived Resources

Partners

2017 Coastal Master Plan

2012 Coastal Master Plan

Annual Plan

### Outreach

#### MODELING UPDATE WEBINARS

Over the course of the plan development process, CPRA developed a series of webinars focused specifically on the technical updates and the predictive modeling effort. The level of detail for these webinars range from "introductory" to "general" to "technical" (noted in the webinar descriptions). Please find below a list of webinar topics currently available. As new information is developed and becomes available, additional topics will be added.

Click on a link below to jump to that topic's webinar. For additional information on the below topics, please see the suggested links or reports on the Technical Resources page.

- [Predictive Modeling 101](#)
- [The Planning Tool](#)
- [ICM-Habitat Suitability Indices](#)
- [ICM-Morph & ICM-LAVegMod](#)
- [Risk Assessment: Risk Model Improvements](#)
- [Louisiana Population Projections](#)
- [Barrier Island Model Improvements](#)
- [Storm Surge & Waves Model Update](#)
- [ICM-Landscape Model: Final Improvements & Scenario Setting, Part 1](#)
- [ICM-Landscape Model: Final Improvements & Scenario Setting, Part 2](#)
- [Storm Selection: ICM & Risk Models](#)
- [Technical Modeling Update Webinar #1](#)

CPRA's Master Plan website has been updated with a variety of technical documentation and outreach material.

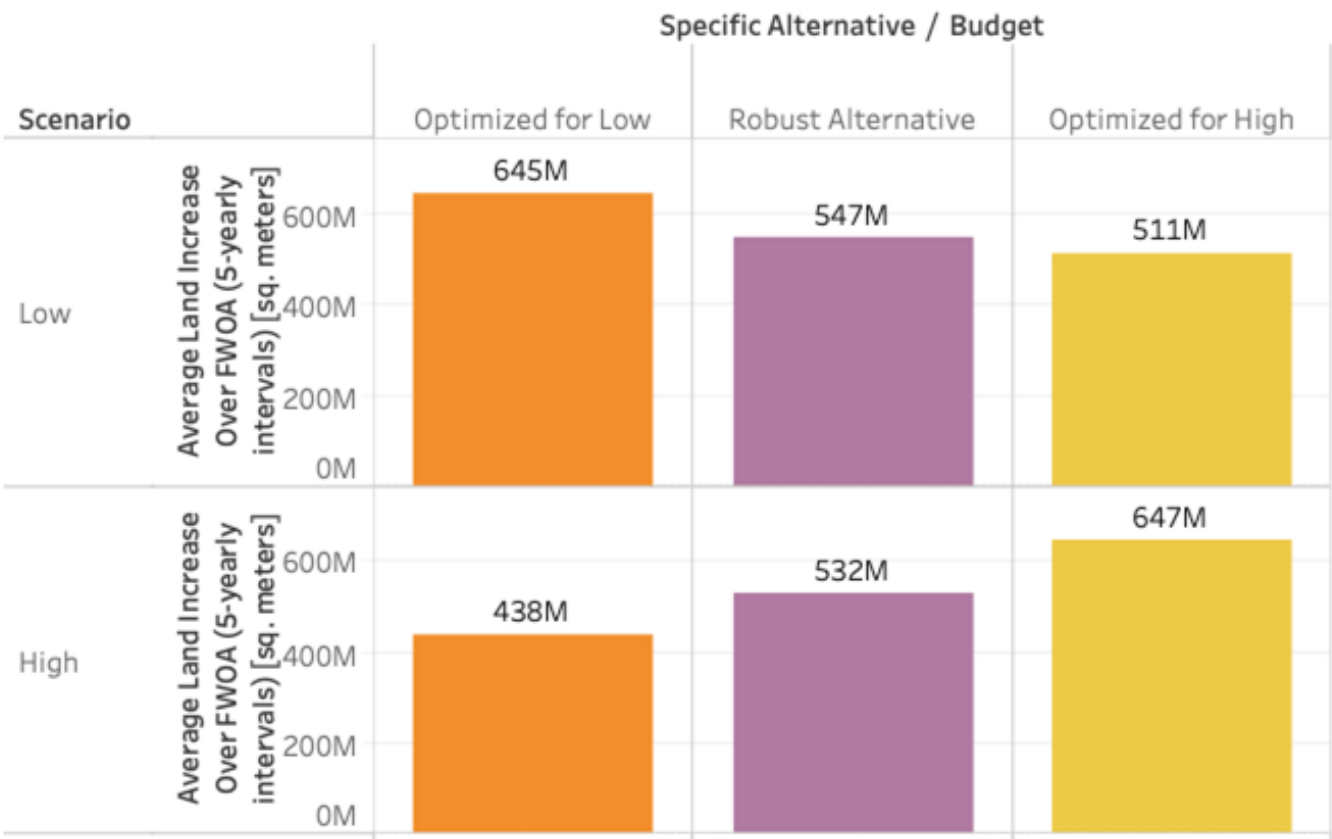


# PLANNING TOOL APPROACH

## PROJECT PRIORITIZATION

- Measuring benefits over time
- Robust Project Selection
  - The Robust Alternative balances outcomes across scenarios

Total Land Comparison (Optimal and Robust)





# OUTREACH AND ENGAGEMENT UPDATES

2020-PRESENT

- Developed 2023 Coastal Master Plan email list
- Website Updates
  - ‘Contact Us’ form added to master plan landing page
  - Technical Resources – 11 model improvement reports developed and posted
  - Outreach – 12 modeling-focused webinars recorded and posted
- Conference Participation
  - 3 part session series at 2021 State of the Coast
  - Planned session for CERF in Nov 2021
- Materials Development
  - Master plan document, supplementary materials (in progress)
  - Revised appendices strategy
- Virtual Outreach
  - CAT, CEW, RWs, PM-TAC (18 virtual meetings)
  - Webinar Wednesday (6/3) and Technical Modeling Update Webinar (6/16)
- Planning future in-person outreach



# UPCOMING SCHEDULE





# UPCOMING MILESTONES

- **FWOA runs ongoing**
  - **ICM outputs expected early Fall 2021**
  - **Surge and risk outputs expected late Fall 2021**
- **FWA (Project Runs)**
  - **August 2021 through April 2022**
- **Regional Informational Meetings**
  - **Fall 2021**

# 2023 MASTER PLAN SCHEDULE

Activity	2018	2019	2020	2021	2022	2023
New Project Development						
Model Updates and Cal/ Val						
Update Scenarios and FWOA List						
New FWOA Runs						
Project Attributes (projects)						
New Project Modeling						
Project Attributes (alternatives)						
Alternatives Modeling (draft plan)						
Document Development (draft)						
Formal Public Meetings						
CPRA Board Meeting						
Final Master Plan to Legislature						



A scenic view of a coastal wetland. In the foreground, there is a body of blue water with some white foam from a boat's wake. To the left, there are clumps of tall, dry, yellowish-brown reeds. In the middle ground, a white boat with a green canopy and a metal frame is moving across the water, leaving a white wake. The background consists of a dense line of green trees and shrubs under a bright blue sky with scattered white clouds. A dark green rectangular box is overlaid in the center of the image, containing white text.

**THANK YOU**  
**MASTERPLAN@LA.GOV**